WEST Search History for Application 10590446

Creation Date: 2012032317:17

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
20030153078.PN.	PGPB, USPT	ADJ	YES		07-23-2010
(THREE DIMENSION$5) SAME TISSUE	PGPB, USPT	ADJ	YES		07-23-2010
((THREE DIMENSION$5) SAME TISSUE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		07-23-2010
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		07-23-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) AND ((THREE DIMENSION$5) SAME TISSUE AND 20030153078.PN.)	PGPB, USPT	ADJ	YES		07-23-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		07-23-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		07-23-2010
MESENCHYMA	PGPB, USPT	ADJ	YES		07-23-2010
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		07-23-2010
AGGREGATE	PGPB, USPT	ADJ	YES		07-23-2010
(AGGREGATE) SAME (20030153078.PN.)	PGPB, USPT	ADJ	YES		07-23-2010
(AGGREGATE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		07-23-2010

(AGGREGATE AND 20030153078.PN.) AND ((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER)	PGPB, USPT	ADJ	YES		07-23-2010
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		07-23-2010
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER AND (THREE DIMENSION$5) SAME TISSUE) AND ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)))	PGPB, USPT	ADJ	YES		07-23-2010
("3D") OR (("3") near5 (D OR DIMENSION$8))	PGPB, USPT	ADJ	YES		12-18-2010
cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)	PGPB, USPT	ADJ	YES		12-18-2010
Matrix$6 or matrices	PGPB, USPT	ADJ	YES		12-18-2010
embed$6	PGPB, USPT	ADJ	YES		12-18-2010
engineer$6 same ((tissue or (biologic$9 same structur$4)))	PGPB, USPT	ADJ	YES		12-18-2010
computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))	PGPB, USPT	ADJ	YES		12-18-2010
cell$6 same (aggregat$4 or composit$5 or scaffold$4)	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(embed$6) same (Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (embed$6 same Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010

(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (Matrix$6 or matrices same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
connective same tissue	PGPB, USPT	ADJ	YES		12-18-2010
epitheli$8 same cell	PGPB, USPT	ADJ	YES		12-18-2010

matrix same gel	PGPB, USPT	ADJ	YES		12-18-2010
(connective same tissue) and (matrix same gel)	PGPB, USPT	ADJ	YES		12-18-2010
(connective same tissue) same (matrix same gel)	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli$8 same cell) same (connective same tissue same matrix same gel)	PGPB, USPT	ADJ	YES		12-18-2010
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli$8 same cell same connective same tissue same matrix same gel) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli$8 same cell same connective same tissue same matrix same gel) same (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli$8 same cell same connective same tissue same matrix same gel) same (connective same tissue same matrix same gel)	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli$8 same cell same connective same tissue same matrix same gel) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(epitheli$8 same cell same connective same tissue same matrix same gel) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(connective same tissue) and (epitheli$8 same cell)	PGPB, USPT	ADJ	YES		12-18-2010

(matrix same gel) and (connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		12-18-2010
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		12-18-2010
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(Matrix$6 or matrices) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
(embed$6) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		12-18-2010
Layer$5 same (matrix$4 or matrices)	PGPB, USPT	ADJ	YES		12-18-2010
(cell$6 same (aggregat$4 or composit$5 or scaffold$4)) same (Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		12-18-2010
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and	PGPB, USPT	ADJ	YES		12-18-2010

(cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))					
6197575.pn.	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (6197575.pn.)	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (6197575.pn.)	PGPB, USPT	ADJ	YES		12-18-2010
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.)	PGPB, USPT	ADJ	YES		12-18-2010
(numerical same model) same (computer same(simulat$5 or model$6 or programmed))	PGPB, USPT	ADJ	YES		12-18-2010
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
((numerical same model) same (computer same(simulat$5 or model$6 or programmed))) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
((numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		12-18-2010
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.) and ((numerical same model) same (computer same(simulat$5 or model$6 or programmed))	PGPB, USPT	ADJ	YES		12-18-2010

and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))					
("3D") OR (("3") and (D OR DIMENSION$8))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
Matrix$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
embed$6	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
engineer$6 and((tissue or (biologic$9 and structur$4)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
cell$6 and (aggregat$4 or composit$5 or scaffold$4)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
connective tissue	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
epitheli$8 and cell	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
matrix and gel	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
Layer$5 and (matrix$4 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(numerical and model)and (computer and(simulat$5 or model$6 or programmed))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010

((numerical and model)and (computer and(simulat$5 or model$6 or programmed))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and ("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(epitheli$8 and cell) and (matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(connective tissue) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010

(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (matrix and gel and epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(embed$6) and (Matrix$6 or matrices and Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(embed$6) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(connective tissue) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010

(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(Layer$5 and (matrix$4 or matrices)) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		12-18-2010
20030153078.PN.	PGPB, USPT	ADJ	YES		12-18-2010
(THREE DIMENSION$5) SAME TISSUE	PGPB, USPT	ADJ	YES		12-18-2010
((THREE DIMENSION$5) SAME TISSUE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		12-18-2010
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		12-18-2010
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		12-18-2010
MESENCHYMA	PGPB, USPT	ADJ	YES		12-18-2010
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		12-18-2010
AGGREGATE	PGPB, USPT	ADJ	YES		12-18-2010
(AGGREGATE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		12-18-2010
(AGGREGATE AND 20030153078.PN.) AND ((CARTILAGE OR (BONE TISSUE)) SAME	PGPB, USPT	ADJ	YES		12-18-2010

MONOLAYER)					
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		12-18-2010
("3D") OR (("3") near5 (D OR DIMENSION$8))	PGPB, USPT	ADJ	YES		08-11-2011
cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)	PGPB, USPT	ADJ	YES		08-11-2011
Matrix$6 or matrices	PGPB, USPT	ADJ	YES		08-11-2011
embed$6	PGPB, USPT	ADJ	YES		08-11-2011
engineer$6 same ((tissue or (biologic$9 same structur$4)))	PGPB, USPT	ADJ	YES		08-11-2011
computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))	PGPB, USPT	ADJ	YES		08-11-2011
cell$6 same (aggregat$4 or composit$5 or scaffold$4)	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(embed$6) same (Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (embed$6 same Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011

(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (Matrix$6 or matrices same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
connective same tissue	PGPB, USPT	ADJ	YES		08-11-2011
epitheli$8 same cell	PGPB, USPT	ADJ	YES		08-11-2011
matrix same gel	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue) and (matrix same gel)	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue) same (matrix same gel)	PGPB, USPT	ADJ	YES		08-11-2011
		ADJ	YES		08-11-2011

(epitheli$8 same cell) same (connective same tissue same matrix same gel)	PGPB, USPT				
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(epitheli$8 same cell same connective same tissue same matrix same gel) same (connective same tissue same matrix same gel)	PGPB, USPT	ADJ	YES		08-11-2011
(epitheli$8 same cell same connective same tissue same matrix same gel) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue) and (epitheli$8 same cell)	PGPB, USPT	ADJ	YES		08-11-2011
(matrix same gel) and (connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		08-11-2011
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		08-11-2011
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(Matrix$6 or matrices) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or	PGPB, USPT	ADJ	YES		08-11-2011

composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))					
(embed$6) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
Layer$5 same (matrix$4 or matrices)	PGPB, USPT	ADJ	YES		08-11-2011
(cell$6 same (aggregat$4 or composit$5 or scaffold$4)) same (Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		08-11-2011
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		08-11-2011
6197575.pn.	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (6197575.pn.)	PGPB, USPT	ADJ	YES		08-11-2011
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.)	PGPB, USPT	ADJ	YES		08-11-2011
(numerical same model) same (computer same(simulat$5 or model$6 or programmed))	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		08-11-2011
((numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and	PGPB, USPT	ADJ	YES		08-11-2011

(("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))					
("3D") OR (("3") and (D OR DIMENSION$8))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
Matrix$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
embed$6	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
engineer$6 and((tissue or (biologic$9 and structur$4)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
cell$6 and (aggregat$4 or composit$5 or scaffold$4)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
connective tissue	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
epitheli$8 and cell	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
matrix and gel	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
Layer$5 and (matrix$4 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(numerical and model)and (computer and(simulat$5 or model$6 or programmed))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

((numerical and model)and (computer and(simulat$5 or model$6 or programmed))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and ("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(epitheli$8 and cell) and (matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(connective tissue) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (matrix and gel and epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(embed$6) and (Matrix$6 or matrices and Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(embed$6) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(connective tissue) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(Layer$5 and (matrix$4 or matrices)) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
20030153078.PN.	PGPB, USPT	ADJ	YES		08-11-2011
(THREE DIMENSION$5) SAME TISSUE	PGPB, USPT	ADJ	YES		08-11-2011
((THREE DIMENSION$5) SAME TISSUE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		08-11-2011
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		08-11-2011
MESENCHYMA	PGPB, USPT	ADJ	YES		08-11-2011
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		08-11-2011
AGGREGATE	PGPB, USPT	ADJ	YES		08-11-2011
(AGGREGATE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		08-11-2011
(AGGREGATE AND 20030153078.PN.) AND ((CARTILAGE OR (BONE TISSUE)) SAME	PGPB, USPT	ADJ	YES		08-11-2011

MONOLAYER)					
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		08-11-2011
diameter same (cross section)	PGPB, USPT	ADJ	YES		08-11-2011
(cell$2 ggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position)	PGPB, USPT	ADJ	YES		08-11-2011
(cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position)	PGPB, USPT	ADJ	YES		08-11-2011
biocompatible or (biologically compatible)	PGPB, USPT	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(AGGREGATE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
L91same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
((THREE DIMENSION$5) SAME TISSUE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011

(("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4)) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(epitheli$8 same cell) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
L24same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(matrix same gel) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue same matrix same gel) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and matrix same gel) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli$8 same cell) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli$8 same cell and diameter same (cross section)) or (connective same tissue and matrix same gel and diameter same (cross section)) or (("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section)) or (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section)) or ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section))	PGPB, USPT	ADJ	YES		08-11-2011

(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section)) and (epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5)	PGPB, USPT	ADJ	YES		08-11-2011

SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell)					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or	PGPB, USPT	ADJ	YES		08-11-2011

(biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011

(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		08-11-2011
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or	PGPB, USPT	ADJ	YES		08-11-2011

(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or	PGPB, USPT	ADJ	YES		08-11-2011

(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.)					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same	PGPB, USPT	ADJ	YES		08-11-2011

(simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and (embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4)

same Layer$5 same (matrix$4 or matrices) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.)					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7	PGPB, USPT	ADJ	YES		08-11-2011

or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and ((numerical same model) same (computer same(simulat$5 or model$6 or programmed)))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and	PGPB, USPT	ADJ	YES		08-11-2011	

epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and	PGPB, USPT	ADJ	YES		08-11-2011	

Query	Database				Date
embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and ((numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer	PGPB, USPT	ADJ	YES		08-11-2011

same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and ((cell$2 ggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe	PGPB, USPT	ADJ	YES		08-11-2011

scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and ((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH)	PGPB, USPT	ADJ	YES		08-11-2011

OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and (biocompatible or (biologically compatible))					
(THREE DIMENSION$5) and TISSUE	USOC, EPAB,	ADJ	YES		08-11-2011

	JPAB, DWPI				
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
aggregate	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
diameter and (cross section)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
(cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
biocompatible or (biologically compatible)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((THREE DIMENSION$5) and TISSUE) and ((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((THREE DIMENSION$5) and TISSUE) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((THREE DIMENSION$5) and TISSUE) and ((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

Query	Database	Op	Plurals		Date
((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER and (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))) and (aggregate)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER and (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))) and (biocompatible or (biologically compatible))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))) and (biocompatible or (biologically compatible))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible)) and (aggregate)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) and aggregate) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section)) and ((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER and (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section)) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011

((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section)) and ((THREE DIMENSION$5) and TISSUE and diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position) and diameter and (cross section)) and ((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER)	USOC, EPAB, JPAB, DWPI	ADJ	YES		08-11-2011
("3D") OR (("3") near5 (D OR DIMENSION$8))	PGPB, USPT	ADJ	YES		03-23-2012
cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)	PGPB, USPT	ADJ	YES		03-23-2012
Matrix$6 or matrices	PGPB, USPT	ADJ	YES		03-23-2012
embed$6	PGPB, USPT	ADJ	YES		03-23-2012
engineer$6 same ((tissue or (biologic$9 same structur$4)))	PGPB, USPT	ADJ	YES		03-23-2012
computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))	PGPB, USPT	ADJ	YES		03-23-2012
cell$6 same (aggregat$4 or composit$5 or scaffold$4)	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6) same (Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (embed$6 same Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same	PGPB, USPT	ADJ	YES		03-23-2012

(aggregat$4 or composit$5 or scaffold$4))					
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (Matrix$6 or matrices same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
connective same tissue	PGPB, USPT	ADJ	YES		03-23-2012
epitheli$8 same cell	PGPB, USPT	ADJ	YES		03-23-2012
matrix same gel	PGPB, USPT	ADJ	YES		03-23-2012

(connective same tissue) and (matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) same (matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli$8 same cell) same (connective same tissue same matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli$8 same cell same connective same tissue same matrix same gel) same (connective same tissue same matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli$8 same cell same connective same tissue same matrix same gel) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) and (epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(matrix same gel) and (connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012

(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
Layer$5 same (matrix$4 or matrices)	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 same (aggregat$4 or composit$5 or scaffold$4)) same (Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		03-23-2012
6197575.pn.	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (6197575.pn.)	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.)	PGPB, USPT	ADJ	YES		03-23-2012
(numerical same model) same (computer same(simulat$5 or model$6 or programmed))	PGPB, USPT	ADJ	YES		03-23-2012

(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
((numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR (("3") and (D OR DIMENSION$8))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
Matrix$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
embed$6	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
engineer$6 and((tissue or (biologic$9 and structur$4)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
cell$6 and (aggregat$4 or composit$5 or scaffold$4)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
connective tissue	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
epitheli$8 and cell	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
matrix and gel	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
Layer$5 and (matrix$4 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(numerical and model)and (computer and(simulat$5 or model$6 or programmed))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Layer$5 and (matrix$4 or matrices))	EPAB, JPAB,	ADJ	YES		03-23-2012

	DWPI				
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((numerical and model)and (computer and(simulat$5 or model$6 or programmed))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and ("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli$8 and cell) and (matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(connective tissue) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (matrix and gel and epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed$6) and (Matrix$6 or matrices and Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed$6) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(connective tissue) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices)) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20030153078.PN.	PGPB, USPT	ADJ	YES		03-23-2012
(THREE DIMENSION$5) SAME TISSUE	PGPB, USPT	ADJ	YES		03-23-2012
((THREE DIMENSION$5) SAME TISSUE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		03-23-2012
MESENCHYMA	PGPB, USPT	ADJ	YES		03-23-2012
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		03-23-2012
AGGREGATE	PGPB, USPT	ADJ	YES		03-23-2012

(AGGREGATE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE AND 20030153078.PN.) AND ((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER)	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		03-23-2012
diameter same (cross section)	PGPB, USPT	ADJ	YES		03-23-2012
(cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position)	PGPB, USPT	ADJ	YES		03-23-2012
biocompatible or (biologically compatible)	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
((THREE DIMENSION$5) SAME TISSUE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli$8 same cell) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(matrix same gel) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue same matrix same gel) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012

(("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and matrix same gel) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section)) or (connective same tissue and matrix same gel and diameter same (cross section)) or (("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section)) or (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section)) or ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section)) and (epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same	PGPB, USPT	ADJ	YES		03-23-2012

design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (matrix same gel and connective same tissue and epitheli$8 same cell)					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same	PGPB, USPT	ADJ	YES		03-23-2012

(simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5)	PGPB, USPT	ADJ	YES		03-23-2012

SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe	PGPB, USPT	ADJ	YES		03-23-2012	

scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6	PGPB, USPT	ADJ	YES		03-23-2012

near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6	PGPB, USPT	ADJ	YES		03-23-2012

near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and ((numerical same model) same (computer same(simulat$5 or model$6 or programmed)))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same	PGPB, USPT	ADJ	YES		03-23-2012	

design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe	PGPB, USPT	ADJ	YES		03-23-2012	

scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and ((numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe	PGPB, USPT	ADJ	YES		03-23-2012

scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and (biocompatible or (biologically compatible))					
(THREE DIMENSION$5) and TISSUE	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

aggregate	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
diameter and (cross section)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
biocompatible or (biologically compatible)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION$5) and TISSUE) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION$5) and TISSUE) and ((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))) and (biocompatible or (biologically compatible))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible)) and (aggregate)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell same aggregate) same (emmbedded or immersed)	PGPB, USPT	ADJ	YES		03-23-2012

((cell same aggregate) same (emmbedded or immersed)) and (connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbedded or immersed) and connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section)) and (biocompatible or (biologically compatible))	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbedded or immersed) and connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and biocompatible or (biologically compatible)) and (AGGREGATE)	PGPB, USPT	ADJ	YES		03-23-2012
20080070304.pn.	PGPB, USPT	ADJ	YES		03-23-2012
(435/395).ccls.		ADJ	YES		03-23-2012

	PGPB, USPT				
(435/397).ccls.	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls.) and ((435/397).ccls.)	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls.) and (20080070304.pn.)	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls. and 20080070304.pn.) and (AGGREGATE)	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls. and 20080070304.pn. and AGGREGATE) and ((cell same aggregate) same (emmbedded or immersed))	PGPB, USPT	ADJ	YES		03-23-2012
(cell and aggregate) and (emmbedded or immersed)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell and aggregate) and (emmbedded or immersed)) and ((THREE DIMENSION$5) and TISSUE)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell and aggregate) and (emmbedded or immersed) and (THREE DIMENSION$5) and TISSUE) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) and aggregate)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20040219133.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20070142916.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20070231787.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20090248145.pn.	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR (("3") near5 (D OR DIMENSION$8))	PGPB, USPT	ADJ	YES		03-23-2012
cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)	PGPB, USPT	ADJ	YES		03-23-2012
Matrix$6 or matrices		ADJ	YES		03-23-2012

	PGPB, USPT				
embed$6	PGPB, USPT	ADJ	YES		03-23-2012
engineer$6 same ((tissue or (biologic$9 same structur$4)))	PGPB, USPT	ADJ	YES		03-23-2012
computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))	PGPB, USPT	ADJ	YES		03-23-2012
cell$6 same (aggregat$4 or composit$5 or scaffold$4)	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6) same (Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (embed$6 same Matrix$6 or matrices same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) same (("3D") OR (("3") near5 (D OR DIMENSION$8)) same computer same (simulat$7 or assist$7 or design$5 or (assisted same	PGPB, USPT	ADJ	YES		03-23-2012

design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))					
(Matrix$6 or matrices) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (Matrix$6 or matrices same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
(computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
connective same tissue	PGPB, USPT	ADJ	YES		03-23-2012
epitheli$8 same cell	PGPB, USPT	ADJ	YES		03-23-2012
matrix same gel	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) and (matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) same (matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli$8 same cell) same (connective same tissue same matrix same gel)	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) same (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
		ADJ	YES		03-23-2012

(epitheli$8 same cell same connective same tissue same matrix same gel) same (connective same tissue same matrix same gel)	PGPB, USPT				
(epitheli$8 same cell same connective same tissue same matrix same gel) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) and (epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(matrix same gel) and (connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4)) and (computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(Matrix$6 or matrices) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4)))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
Layer$5 same (matrix$4 or matrices)		ADJ	YES		03-23-2012

	PGPB, USPT				
(cell$6 same (aggregat$4 or composit$5 or scaffold$4)) same (Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES		03-23-2012
6197575.pn.	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) and (6197575.pn.)	PGPB, USPT	ADJ	YES		03-23-2012
(embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) and 6197575.pn.)	PGPB, USPT	ADJ	YES		03-23-2012
(numerical same model) same (computer same(simulat$5 or model$6 or programmed))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8))) same (cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
((numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))	PGPB, USPT	ADJ	YES		03-23-2012
("3D") OR (("3") and (D OR DIMENSION$8))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
Matrix$6 or matrices	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

embed$6	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
engineer$6 and((tissue or (biologic$9 and structur$4)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
cell$6 and (aggregat$4 or composit$5 or scaffold$4)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
connective tissue	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
epitheli$8 and cell	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
matrix and gel	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
Layer$5 and (matrix$4 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(numerical and model)and (computer and(simulat$5 or model$6 or programmed))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((numerical and model)and (computer and(simulat$5 or model$6 or programmed))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and ("3D") OR (("3") and (D OR DIMENSION$8)) and Layer$5 and (matrix$4 or matrices))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli$8 and cell) and (matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
		ADJ	YES		03-23-2012

(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI				
(connective tissue) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices)) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (engineer$6 and((tissue or (biologic$9 and structur$4))) and computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (matrix and gel and epitheli$8 and cell and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and connective tissue)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel) and (("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed$6) and (Matrix$6 or matrices and Layer$5 and (matrix$4 or matrices) and epitheli$8 and cell and matrix and gel and ("3D") OR (("3") and (D OR DIMENSION$8)))	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(("3D") OR (("3") and (D OR DIMENSION$8))) and (Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(embed$6) and (("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(engineer$6 and((tissue or (biologic$9 and structur$4)))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5))) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$6 and (aggregat$4 or composit$5 or scaffold$4)) and (embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(connective tissue) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(epitheli$8 and cell) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(matrix and gel) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

(Layer$5 and (matrix$4 or matrices)) and (cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(computer and(simulat$7 or assist$7 or design$5 or (assisted and design$5)) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices) and (Layer$5 and (matrix$4 or matrices) and cell$6 and (aggregat$4 or composit$5 or scaffold$4) and embed$6 and ("3D") OR (("3") and (D OR DIMENSION$8)) and Matrix$6 or matrices)	EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20030153078.PN.	PGPB, USPT	ADJ	YES		03-23-2012
(THREE DIMENSION$5) SAME TISSUE	PGPB, USPT	ADJ	YES		03-23-2012
((THREE DIMENSION$5) SAME TISSUE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		03-23-2012
MESENCHYMA	PGPB, USPT	ADJ	YES		03-23-2012
(CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER	PGPB, USPT	ADJ	YES		03-23-2012
AGGREGATE	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE) AND (20030153078.PN.)	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE AND 20030153078.PN.) AND ((CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER)	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE AND 20030153078.PN. AND (CARTILAGE OR (BONE TISSUE)) SAME MONOLAYER) AND ((THREE DIMENSION$5) SAME TISSUE)	PGPB, USPT	ADJ	YES		03-23-2012
diameter same (cross section)	PGPB, USPT	ADJ	YES		03-23-2012

(cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated)same position)	PGPB, USPT	ADJ	YES		03-23-2012
biocompatible or (biologically compatible)	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR))) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(AGGREGATE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
((THREE DIMENSION$5) SAME TISSUE) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(epitheli$8 same cell) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(matrix same gel) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue same matrix same gel) same (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and matrix same gel) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell) and (diameter same (cross section))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section)) or (connective same tissue and matrix same gel and diameter same (cross section)) or (("3D") OR (("3") near5 (D OR DIMENSION$8))	PGPB, USPT	ADJ	YES		03-23-2012

and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section)) or (engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section)) or ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section)) and (epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (matrix same gel and connective same tissue and epitheli$8 same cell)	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue	PGPB, USPT	ADJ	YES		03-23-2012

and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell)					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and	PGPB, USPT	ADJ	YES		03-23-2012

diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same	PGPB, USPT	ADJ	YES		03-23-2012	

cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)))	PGPB, USPT	ADJ	YES		03-23-2012

(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5))) and (embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices))	PGPB, USPT	ADJ	YES			03-23-2012

(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices)) and ((numerical same model) same (computer	PGPB, USPT	ADJ	YES			03-23-2012

same(simulat$5 or model$6 or programmed)))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4)	PGPB, USPT	ADJ	YES			03-23-2012

same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed))) and (("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))						
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and	PGPB, USPT	ADJ	YES		03-23-2012	

epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and ((numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4))					
(connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and epitheli$8 same cell same connective same tissue same matrix same gel and engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and	PGPB, USPT	ADJ	YES		03-23-2012

matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and embed$6 and engineer$6 same ((tissue or (biologic$9 same structur$4))) and Matrix$6 or matrices and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and matrix same gel and connective same tissue and epitheli$8 same cell and cell$6 near5 (aggregat$4 or composit$5 oe scaffold$4) and computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) same Layer$5 same (matrix$4 or matrices) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4) and (numerical same model) same (computer same(simulat$5 or model$6 or programmed)) and ("3D") OR (("3") near5 (D OR DIMENSION$8)) same cell$6 same (aggregat$4 or composit$5 or scaffold$4)) and (biocompatible or (biologically compatible))					
(THREE DIMENSION$5) and TISSUE	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
aggregate	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
diameter and (cross section)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012

biocompatible or (biologically compatible)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION$5) and TISSUE) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION$5) and TISSUE) and ((CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((THREE DIMENSION$5) and TISSUE and (CARTILAGE OR mesenchyma or (BONE TISSUE)) and MONOLAYER) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR))) and (biocompatible or (biologically compatible))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible)) and (aggregate)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell$2 aggregate) same ((predetermined or pre-known or (already known) or preplanned or (thought through) or contemplated) and position)) and (diameter and (cross section))	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
(cell same aggregate) same (emmbedded or immersed)	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbedded or immersed)) and (connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5)	PGPB, USPT	ADJ	YES		03-23-2012

SAME TISSUE and diameter same (cross section))					
((cell same aggregate) same (emmbedded or immersed) and connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section)) and (biocompatible or (biologically compatible))	PGPB, USPT	ADJ	YES		03-23-2012
((cell same aggregate) same (emmbedded or immersed) and connective same tissue and epitheli$8 same cell and diameter same (cross section) or connective same tissue and matrix same gel and diameter same (cross section) or ("3D") OR (("3") near5 (D OR DIMENSION$8)) and cell$6 same (aggregat$4 or composit$5 or scaffold$4) and diameter same (cross section) or engineer$6 same ((tissue or (biologic$9 same structur$4))) same computer same (simulat$7 or assist$7 or design$5 or (assisted same design$5)) and diameter same (cross section) or (COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) SAME ((CELL GROWTH) OR (TISSUE REPAIR)) AND (THREE DIMENSION$5) SAME TISSUE and diameter same (cross section) and biocompatible or (biologically compatible)) and (AGGREGATE)	PGPB, USPT	ADJ	YES		03-23-2012
20080070304.pn.	PGPB, USPT	ADJ	YES		03-23-2012
(435/395).ccls.	PGPB, USPT	ADJ	YES		03-23-2012
(435/397).ccls.	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls.) and ((435/397).ccls.)	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls.) and (20080070304.pn.)	PGPB, USPT	ADJ	YES		03-23-2012
((435/395).ccls. and (435/397).ccls. and 20080070304.pn.) and (AGGREGATE)	PGPB, USPT	ADJ	YES		03-23-2012

((435/395).ccls. and (435/397).ccls. and 20080070304.pn. and AGGREGATE) and ((cell same aggregate) same (emmbedded or immersed))	PGPB, USPT	ADJ	YES		03-23-2012
(cell and aggregate) and (emmbedded or immersed)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell and aggregate) and (emmbedded or immersed)) and ((THREE DIMENSION$5) and TISSUE)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
((cell and aggregate) and (emmbedded or immersed) and (THREE DIMENSION$5) and TISSUE) and ((COMPOSITION OR SKELETON OR SCAFFOLD OR TISSUE OR MATERIAL) and ((CELL GROWTH) OR (TISSUE REPAIR)) and biocompatible or (biologically compatible) and aggregate)	USOC, EPAB, JPAB, DWPI	ADJ	YES		03-23-2012
20040219133.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20070142916.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20070231787.pn.	PGPB, USPT	ADJ	YES		03-23-2012
20090248145.pn.	PGPB, USPT	ADJ	YES		03-23-2012